

No-Till Short Course Part 1 / *Theory and Concepts*

October 3-4, 2007 / Russell E Larson Agronomy Research Farm, Rock Springs PA

Purpose To provide an introduction to the no-till SYSTEM approach contrasting the differences between a tilled and no-till system. This course will prepare the attendees with the background information they will need to confidently answer the question “Why No-Till?”.

Audience Individuals that will introduce the benefits of no-till to producers and help them make the decision to transition to a no-till system. NRCS Field Personnel, Conservation District Personnel, Bay Technicians, Other Nutrient Management Technicians, Watershed Specialists (DEP), District Managers, Extension Agents (less advanced, multi-area agents- dairy, etc), Crop Consultants (beginners)

Prerequisites 2 years of field experience or equivalent professional agricultural training (certified nutrient management planning, degree in agronomy or crop & soil science or farm experience).

Day 1

8:30 am **Welcome and Introductions**

Identify the Stakeholders: Opportunities for collaboration

Historical Perspective: “Why do we till?”

- Weed control
- Simplify / enable planting
- Nutrient / manure management
- Insect management
- Disease management
- Misconceptions / relieve compaction, improve infiltration, enhance root environment, etc.

Consequences of Tillage: The impacts of tillage

- Soil erosion
- Organic matter
- Soil tilth
- Soil biology
- Soil water
- Energy
- Time
- Capital

12:15 pm **Lunch**

1:00 pm **Advantages of No-Till: The no-till “SYSTEM”**

- Soil quality
- Yield
- Soil conservation
- Time
- Economics
- Moisture

4:00 pm **Wrap up**

5:00 pm **Bar-B-Que**

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Day 2

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|----------|--|---|
| 8:00 am | No-Till Challenges & Solutions | |
| | <ul style="list-style-type: none">○ Transition○ Nutrient management○ Compaction | <ul style="list-style-type: none">○ Weeds○ Planting○ Residue management |
| 12:00 pm | Lunch | |
| 1:00 pm | Summary | |
| | <ul style="list-style-type: none">○ Group Q&A○ Presenter roundtables○ Success stories○ Outreach ideas | |
| 2:30 pm | Adjourn | |

Advance registration:

Register online: www.panotill.com/shortcourse
Registration fees: \$50 by credit card / online registration
\$55 by check / mail registration

Late registration (after September 25):

Register online: www.panotill.com/shortcourse
Registration fees: \$60 by credit card / online registration
\$65 by check / mail registration

For registrations by mail, send a completed form with payment to the address below. If paying by check, make check out to: Penn State University

Name: _____

Company: _____

Address: _____

City, State Zip _____ phone _____

Payment type: check: ☐
credit card: Visa ☐ MasterCard ☐ American Express ☐ Discover ☐

card number

name on card

Return to: Crop and Soil Sciences / No-Till Short Course, 115 ASI Bldg., University Park, PA 16802
Questions? Contact : Lisa Crytser at (814) 865-2543 or Jeff McClellan at (814) 863-4260